

25(5)

PHASE I BOOK EXPLOITATION

SOV/2802

Brenner, Mark Mironovich

Planirovaniye neftedobyvayushchey promyshlennosti (Planning in the Oil-extracting Industry) Moscow, Gostoptekhnizdat, 1959. 172 p. Errata slip inserted. 2,650 copies printed.

Executive Ed.: N. D. Dubrovina; Tech. Ed.: I. G. Fedotova.

PURPOSE: The book is intended for economists, managerial personnel, and planners of establishments and regional economic councils of the petroleum extracting industry. It may also be used by students in petroleum vuzes.

COVERAGE: This book discusses overall and regional problems involved in planning for the Soviet petroleum-extracting industry. Methodology employed in making future plans for petroleum extraction and development of oil fields are described. The author reviews methods used in drawing up annual

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Planning in the Oil-extracting

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plans based on the following indices: prospecting and development of petroleum resources, drilling exploratory wells, exploitation of oil fields, capital investment, labor, cost of production, and finances. No personalities are mentioned. There are no references.

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Ch. XII. Planning Finances

169

AVAILABLE: Library of Congress (HD9575.R8B7)

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JG/mmh
1-8-60

ACHARKAN, V.A.; BARSKOV, I.M.; BIRYUKOV, I.S.; BORODINA, L.Ya.; BRENNER, M.M.;
 GORELIK, B.Ye.; GUMEROV, M.N.; ZORKAYA, E.M.; IOYRTSH, A.I.;
 KAYDALOVA, O.N.; KAPUSTIN, Ye.I.; LEBEDEVA, M.A.; LESHCHOVTSSEV, V.A.;
 LYSENKO, V.P.; MARKIN, A.B.; MIKHAYLOV, N.N.; NEST'YEV, I.Y.; NECHAYEV,
 N.V.; NIKOL'SKIY, A.V.; OSTROUKHOV, M.Ya.; PISARZHEVSKIY, O.N.;
 POLUBOYARINOV, M.M.; POPOV, Yu.N.; PRASOLOV, M.A.; POKATAYEV, Yu.N.;
 RIMBERG, A.M.; RYABOV, V.S.; SEMKOV, B.F.; SPERANSKAYA, Ye.A.; TAKOYEV,
 K.F.; TRIFONOVA, G.K.; TROFIMOVA, V.I.; SHAKHNAZAROV, G.Kh.; SHKAREN-
 KOVA, G.P.; SEMERLING, K.G.; EYDEL'MAN, B.I.; MIKAEKYAN, E.A., red.;
 MUKHIN, Yu.A., tekhn.red.

[U.S.S.R. as it is; a popular illustrated handbook] SSSR kak on est';
 popularnyi illiustrirovannyi spravochnik. Moskva, Gos.izd-vo polit.
 lit-ry, 1959. 462 p. (MIRA 12:2)

(Russia)

BRENNER, M. M.

Economic problems in the development of the Soviet petroleum
industry. Vop. ekon. no. 1:67-73 Ja '59. (MIRA 12:1)
(Petroleum industry)

14(O), 11(O)

SOV/92-59-3-3/44

AUTHOR: Brenner, M.M.

TITLE: Growth of Oilmen Labor Productivity in the Light of Resolutions Adopted at the Twenty First Congress of the Communist Party of the Soviet Union (Rost proizvoditel'-nosti truda neftyanikov v svete resheniy XXI s"yezda KPSS)

PERIODICAL: Neftyanik, 1959, Nr 3, pp 1-3 (USSR)

ABSTRACT: According to this article, the Soviet petroleum industry has entered a period of rapid and vigorous growth. During the next seven years petroleum production and refining will show an upsurge unknown in the history of the world's petroleum industry. The author illustrates in a table the gradual growth of Soviet petroleum production between 1928 and 1958, and shows target figures which have been set for the period 1959-1965. The rise of Soviet petroleum production during the above period will surpass by 20 million

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Growth of Oilmen Labor Productivity (Cont.) SOV/92-59-3-3/44

tons that accomplished by the USA between 1945 and 1958. As a result, the place occupied by the Soviet Union in world petroleum production will radically change by 1965. While petroleum production in the Soviet Union amounted to 6 percent of the world production in 1948 and had climbed to 12.5 percent by 1958, petroleum production in the USA dropped during the same period from 59 percent to 37 percent. There is good reason to anticipate that by 1965 Soviet petroleum production will have attained 22 percent of the world production, and that by 1972 the Soviet Union will have occupied in this regard first place, now the position of the USA. The same trend will be followed in fuel production (coal, oil and gas). The technological progress which characterizes the post-war development of the Soviet petroleum production raised the efficiency of oilfield exploitation and the level of petroleum refining. Artificial pressure maintenance in formations has helped to solve the most important economic problem of stimulating oil petroleum flow. Instead of extracting only 30-40 percent of the petroleum contained in the oil reservoir rock, 60-70 percent

Card 2/4

Growth of Oilmen Labor Productivity (Cont.) SOV/92-59-3-3/44

is presently being extracted. Petroleum flow is stabilized and maintained by secondary recovery methods, and the number of depleted oil wells is gradually declining. At the same time technological progress has helped to raise labor productivity, especially in the Volga-Ural region. This considerably lowered petroleum production costs. Furthermore, the introduction of turbine drilling made it possible to penetrate oil-saturated Devonian sediments, and to drill offshore wells in the Caspian Sea under which abundant petroleum deposits rest. The use of newly developed equipment has made it possible to raise the average drilling speed. In productive well drilling it has reached 1082 m per rig per month. Some drilling crews have attained a rate of 4500 m and even 5517 m per rig per month. These figures confirm the significance of the technical progress. The introduction of the catalytic cracking process has increased the yield of light petroleum products and improved the quality of fuel and lube oil. Advanced petroleum refining methods have ensured a rise in labor productivity. New, important tasks of Soviet

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Growth of Oilmen Labor Productivity (Cont.) SOV/92-59-3-3/44

oilmen demand that labor productivity be still further increased, and that the costs of production be decreased. More efficient oilfield exploitation, intensification of production, and the introduction of automation and advanced petroleum refining methods will no doubt contribute to the growth of the productivity of labor.

Card 4/4

BRENNER, M.

Economic problems of geological surveys. Vop. ekon. no.12:102-108
D '59. (MIRA 12:12)

(Surveys)

NIKOLAYEVSKIY, N.M.; BRENNER, M.M.; DERGUNOV, P.V.

Determining the efficiency of a production program for
an oil field using the method of sustained reservoir pressure.
Trudy VNII no.26:51-62 '60. (MIRA 13:9)
(Oil fields--Production methods)

BRENNER, M.M.; BALASHOVA, T.V.; BUCHEVA, V.N.

Effectiveness of capital investments in the oil production
industry. Trudy VNI no.26:159-167 '60. (MIRA 13:9)
(Capital investments) (Petroleum industry)

BRENNER, M.

Everything is going well with us. Neftianik 6 no.1:1-2 Ja '61.
(MIRA 14:4)
(Petroleum industry)

BRENNER, H.M.

Petroleum and gas industries of the U.S.S.R. from the 20th to
the 22d Congress of the CPSU. Neftianik 6 no.10:1-3 0 '61.
(MIRA 14:10)

(Petroleum industry)
(Gas, Natural)

BRENNER, Mark Mironovich, doktor ekon. nauk; VAYNER, I.Ya., nauchnyy
red.; LEVITSKIY, P.I., nauchnyy red.; PETRUSHEV, I.M., red.;
PONOMAREVA, A.A., tekhn. red.

[Economics of the petroleum industry of the U.S.S.R.] Ekonomika
neftianoi promyshlennosti SSSR. Moskva, Ekonomizdat, 1962. 391 p.
(MIRA 15:8)

(Petroleum industry)

BRENNER, M.M.

The petroleum industry of the U.S.S.R. on the eve of the 45th anniversary of the Great October. Neftianik 7 no.11:2-3 N '62.
(MIRA 16:6)

(Petroleum industry)

BRENNER, M.M.

Principles and methods of determining the economic efficiency
of oil prospecting operations. Trudy VNII no.33:236-247 '61.
(MIRA 16:7)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut,
Moskva.

(Petroleum geology)

BRENNER, M.M.

Economic problems in the development of petroleum and gas
production in the Soviet Union. Neft, khoz. 41 no.2:1-8 F '63.
(MIRA 17:8)

BRENNER, M.M.

Long-term planning of the development of oil and gas production in the U.S.S.R.; a topic for discussion. Neft. khoz. 41 no.6:1-8 Je '63. (MIRA 17:6)

BRENNER, R.N., dotsent, kandidat tekhnicheskikh nauk.

Sealing cracks in sections of cast iron boilers by the metallization method.
Gor.khoz.Mosk.21 no.1:45 Ja '47. (MLRA 6:11)
(Boilers)

BRENNER, R.N., dotsent, kandidat tekhnicheskikh nauk [reviewer]; SMUKHNIN, P.N.
[author].

Review of P.N.Smukhnin's book "Simple Heating Equipment." Gor.khoz.Mosk.
21 no.3:44 Mr '47. (MIRA 6:11)
(Stoves)

BRENNER, R. N.

Sanitary engineering operations Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture,
1952 418 p. (53-25647)

TD145.B8

BRENNER, R. N.

SEMEYNOV, Leonid Alekseyevich, professor, doktor tekhnicheskikh nauk;

BRENNER, R.N., dotsent, kandidat tekhnicheskikh nauk, redaktor

[deceased]; GUSEV, Yu.L., kand.tekhn.nauk, red.; VOLKOV, V.S., tekhn.red.

[Stove heating] Pechnoe otopenie. Moskva, Gos.izd-vo lit-ry
po stroit. i arkhitekture, 1955. 243 p. (MIRA 9:3)

(Stoves) (Heating)

BRUNNER, V.

"Problems of the Gravel Industry from the Viewpoint of the Building Industry",
P. 107, (EPITCANYAG, Vol. 6, No. 3, March 1954, Budapest, Hungary)

SC: Monthly List of East European Accessions (EPAL), LC, Vol. 4, No. 3,
March 1955, Uncl.

BRENNER, V.

✓
MT 73. Historical survey of brick manufacture in Szombathely
— V. Brenner. (*Képldanyag* — Vol. 7, 1955, No. 2, pp. 76-77, 1 fig.)

The town of Szombathely has a rich collection of bricks and clayware covering the centuries from the Roman era up to the present time. Exploitation of the clay deposits in the vicinity of the town and the manufacture of bricks and clayware have been carried on for the last two thousand years. At the junction of two regions of economically different character, but at the same time suitably located for communication, the town of Sabaria was founded in the first years of the Roman empire and became the capital of the province. Sabaria was approximately the same in size as Szombathely; a great many relics dating from that epoch — not alone bricks but other products of the clay industry as well — have remained. A characteristic feature of the clay deposits is their high silica and low lime content. From the carefully prepared raw material, bricks and clayware of the most varied sizes and shapes were manufactured by methods which were far superior to those of later centuries. While brickmaking in the Roman era was an all year round occupation later, in the Middle Ages, it became seasonal work. Materials salvaged from demolished Roman edifices were used by Medieval builders. At the beginning of modern times a slow upward trend had started in the development of the manufacture of bricks and clayware gaining ground around the latter part of the 18th century. The erection of ring kilns and the introduction of mechanization toward the middle of the 19th century set the foundation for large scale production which is constantly expanding.

BRENNER, V.

BRENNER, V. - Building materials, the building industry and architecture.
p. 323, Vol. 8, no. 8, Aug. 1956
Epitoanyag - Budapest, Hungary

SOURCE: East European Accessions List (EEAL) vol. 6, no. 4, April 1957

BRENNER, V.A., kand. tekhn. nauk; VAS'KIN, N.I., gornyy inzh.; DANDZBERG, L.K.,
brigadir; ZAKON, Ya.A., inzh.; SHVETS, I.A., inzh.; YUDIN, N.P., kand.
tekhn. nauk

New record for mining development workings in coal with the "Karaganda
7/15" cutter-loader. Ugol' 40 no.6:7-11 Je. '65. (MIRA 18:7)

1. Giprouglegormash (for Brenner, Yudin). 2. Kombinat Karabandaugol' (for
Vas'kin). 3. Shakhta No.122 tresta Sarar'ugol' (for Dandzberg, Zakon). 4.
4. Trest Sarar'ugol' (for Shvets).

BRENNER, V. A.

THE FKG-2 DRIVING CUTTER-LOADER IN THE KARAGANDA BASIN

SPENTEN CO., JEROME, 2011, 1964, 1-17-64. The FKG-2, an improved version of the FKG-1 described in Fuel Abstr., 1966, vol. 83, 4235, has now been tried and pronounced suitable. For some duties the cutting diameter will have to be increased from 2 to 2.7 m.

BRENNER, V.A., ZEYFERT, V.P.

Efficient design of cutter-loader working parts for operations
in the Karaganda Basin. Nauch. trudy ~~NI~~UI no.2:90-104 '58.

(MIRA 13:8)

(Karaganda Basin--Coal mining machinery)

BRENNER, V.A., KUTOVOY, V.I.

Results of introducing a new design of cutting chain sets for
"Donbass" cutter-loaders. Nauch. trudy KNIUI no.2:105-113 '58.
(MIRA 13:8)
(Karaganda Basin--Coal mining machinery)

BRENNER, V.A., kand.tekhn.nauk; LYUBOSHCHINSKIY, D.M., kand.tekhn.nauk

Concerning L.I. Baron, B.M. Loguntsov, and E.Z. Pozin's book
"Determining the properties of rocks." Reviewed by V. A.
Brenner, D.M. Liuboshchinskii. Shakht. stroi. 6 no.10:32-3
of cover 0 '62. (MIRA 15:9)

1. Giprouglegormash.
(Rocks--Testing) (Baron, L.I.) (Loguntsov, B.M.)
(Pozin, E.Z.)

ALEKHIN, F.K.; ALOTIN, L.M.; ALTAYEV, Sh.A.; ANTONOV, P.Ye.;
BEVZIK, Yu.Ya.; BELEN'KIY, D.M.; BRATCHENKO, B.F.,
gornyy inzh.; BRENNER, V.A.; BYR'KO, V.F.; VAL'SHTEYN,
G.I.; YERMOLENOK, N.S.; ZHISLIN, I.M.; IVANOV, V.A.;
IVANCHENKO, G.Ye.; KVON, S.S.; KODYK, G.T.; KREMENCHUTSKIY,
N.F.; KURDYAYEV, B.S.; KUSHCHANOV, G.K.; MASTER, A.Z.;
PREOBRAZHENSKAYA, Ye.I.; ROZENTAL', Yu.M.; RUDOV, I.L.;
RUSHCHIN, A.A.; RYBAKOV, I.P.; SAGINOV, A.S.; SAMSONOV,
M.T.; SERGAZIN, F.S.; SKLEPCHUK, V.M.; USTINOV, A.M.;
UTTS, V.N.; FEDOTOV, I.P.; KHRAPKOV, G.Ye.; SHILENKOV, V.N.;
SHNAYDMAN, M.I.; BOYKO, A.A., retsenzent; SUROVA, V.A.,
ved. red.

[Mining of coal deposits in Kazakhstan] Razrabotka ugol'-
nykh mestorozhdenii Kazakhstana. Moskva, Nedra, 1965. 292 p.
(MIRA 18:5)

BAUMAN, A.V.; KOMAROVA, P.A.; DOLZHENKOV, Yu.N.; KUSHCHANOV, G.K.;
BRENNER, V.A.; IM, A.I.; KAZAKOV, V.M.; KOZHAKHANOV, S.;
MURATOV, B.A.

Self-propelled drilling rig. Gor. zhur. no.7:75 J1 '63.
(MIRA 16:8)

BRENNER, V.A., kand. tekhn. nauk; EPIKOV, N.P., inzh.; LEVITSKIY,
I.M., Pand. tekhn. nauk; SAFAROV, A.G., inzh.

Investigation of the performance of drum-type actuating mechanisms
with chain drive. Izv. vys. ucheb. zav.; gor. zhur. 7 no.11:79-86
1964. (MIRA 18:3)

1. Institut Gipromlegormash. Rekomendovana kafedroy gornykh mashin
Sverdlovskogo gornogo instituta.

BRENNER, V.A.

Creation of powered supports and complexes: In the State Experimental
Institute of Design and Construction for the Mining Machinery Industry.
Ugol' 40 no.5:32-33 My. '65. (MIRA 18:6)

1. Zamestitel' direktora Giprouglegormashia, g. Karaganda.

BRENNEYSSEN, Georg Edmundovich; SHCHERBAKOV, Nikolay Ivanovich; LOTYSHEV,
I.P., red.; RUCHYEV, L.I., tekhn. red.

[Park of the "IUzhnye Kul'tury" State Farm; a short guide] Park
sovkhoza "IUzhnye kul'tury"; kratkii putevoditel'. Krasnodar,
Krasnodarskoe knizhnoe izd-vo, 1959. 60 p. (MIRA 16:3)
(Adler region--Arboretums)

BRENNING, S.

Description of a new subspecies of Dorsadion divisum Germ. (Ceramby., Coleoptera).
In German. p. 262. Vol. 6, 1955 MAGYAR NEMZETI MUZEUM TERMESZETTUDOMANYI
MUSEUM EVKONYVE. ANNALES HISTORICO-NATURALES MUSEI NATIONALIS HUNGARICI.
Budapest, Hungary.

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

BRENNING, S.

Two new Lamiinae from the Belgian Congo (Coleoptera, Cerambycidae). In French.
p . 265. Vol. 6, 1955 MAGYAR NEMZETI MUZEUM TERMESZETTUDOMANYI MUSEUM EVKONYVE.
ANNALES HISTORICO-NATURALES MASEI NATIONALIS HUNGARICI. Budapest, Hungary.

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

BRENOV, J.

"The central radio club participates in the international competition on April 3."
Radio, Sofiya, Vol 3, No 4, 1954, p. 13

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

BRENOV,ST.

Course at the Central Radio-Club. Radio (Radio), #8:6:Aug 54

BRENOV, S.

International short-wave radio competitions. p. 12
RADIO. (Ministerstvo na poshtite, telegrafite, telefonite
i radioto i Tsentralniia suvet na dobrovlnata organizatsiia
za subeistvie na otbranata) Sofiya. Vol. 5, No. 4, 1956

SOURCE: East European Accessions List (EEAL) Library of
Congress, Vol. 5, No. 11, November 1956

CZECHOSLOVAKIA

Engr J. BRENNREITER and Karel STOLPA, "Fine Mechanics" Development
Institute (Vývojový ústav Přesné mechaniky), Brno.

"Central Network of Oxygen, Suction and Compressed Air in Medical
Establishments."

Prague, Zdravotní Technika a Vzduchotechnika, Vol 5, No 6, 1962; pp
253-258.

Abstract: The need for, and usefulness of, central supply for the
centripetal usage of O₂, negative and positive pressure air should be
as evident as the corresponding networks for gas, electric current,
air conditioning. Various types of such installations for O₂ are
described. Table, schematic, 4 photographs; 2 Czech, 1 Soviet and
1 German reference.

1/1

LN

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/2 PG - 347
AUTHOR BRENS K.A.
TITLE On the solution of linear differential equations with quickly
varying periodic coefficients.
PERIODICAL Doklady Akad. Nauk 108, 997-1000 (1956)
reviewed 10/1956

Let be given the system

$$(1) \quad \frac{dx}{dt} = A(\omega t)x.$$

Here $x = x(t)$ be an n -dimensional vector, $A(\omega t)$ a real symmetric matrix the elements of which are continuous periodic (period $T = \frac{2\pi}{\omega}$) functions of t , ω - a large parameter. The author gives a constructive proof for the analyticity of the fundamental matrix of (1) and therewith he obtains a practically useful algorithm to the solution of (1). By the transformation $x = V(\tau, \epsilon)y$, $\omega t = \tau$, $\epsilon = \omega^{-1}$ (1) goes over into an equation with constant coefficients

$$(2) \quad \frac{dy}{dt} = \varepsilon a_y,$$

where the matrix $V(\tau, \varepsilon)$ satisfies the equation

$$(3) \quad \frac{dV}{dt} = -\epsilon [A(\tau)V - V\alpha].$$

Doklady Akad. Nauk 108, 997-1000 (1956)

CARD 2/2

PG - 347

Since $V(\tau, \varepsilon)$ and $Q(\varepsilon)$ are analytic functions of ε , they can be developed in power series

$$(4) \quad V(\tau, \varepsilon) = \sum_{s=0}^{\infty} \varepsilon^s V_s(\tau) \quad V(0, \varepsilon) = E$$

$$(5) \quad Q(\varepsilon) = \sum_{s=0}^{\infty} \varepsilon^s Q_s.$$

For the determination of the coefficients (4) and (5) are substituted into (3). The comparison of coefficients yields

$$V_0(\tau) = E, \quad Q_1 = \frac{1}{2\pi} \int_0^{2\pi} [\Delta(\tau) V_1 - V_1 Q_0] d\tau,$$

$$V_1(\tau) = \int_0^{\tau} [\Delta(\tau) - Q_0] d\tau, \quad Q_0 = \frac{1}{2\pi} \int_0^{2\pi} \Delta(\tau) d\tau \quad \text{and so on.}$$

INSTITUTION: Mathematical Institute, Acad.Sci. USSR.

BRENTS, A. D.

PA 9T84

USSR/Oil Industries
Oil production

May 1947

"The Problems of Simplifying the Administrative
Machinery in the Petroleum Industry," A. D.
Brents, 4 pp

"Neftyanoye Khozyaystvo" Vol 25, No 5

Attempt to harmonize and coordinate the diverse
components of the industry.

9T84

BRENTS, A. D.

AID P - 487

Subject : USSR/Mining

Card 1/2 Pub. 78 - 1/27

Authors : Budovoy, G. T. and Brents, A. D.

Title : Important Problems in Economy and Planning of the Petroleum Industries

Periodical : Neft. Khoz., v. 32, #6, 1-8, Ju 1954

Abstract : The All-Union Conference on Problems of Economic Improvement in Petroleum Industrial Plants is reviewed, particularly in relation to planning accounting, analysis of work, economical consumption of materials, reagents, fuel, power, machinery and general equipment. The discussion was extended to the defects and shortcomings existing in the searching prospecting, and development of oil and gas reserves. The corrective recommendations were issued for general works, as well as for the planning and organizing of the work of repair brigades. The correct scientific methods in analytical work are discussed and recommended for employment, in view of the need to use all possibilities for high production of gas and oil.

Neft. Khoz., v. 32, #6, 1-8, Ju 1954

AID P - 487

Card 2/2 Pub. 78 - 1/27

Institutions: All-Union Scientific Research Institute (VNII); Central Scientific Research Institute of Mechanization and Organization of Labor in the Petroleum Industry (TsIMT Neft); Technical Soviet of the Ministry of the Petroleum Industry. All-Union Scientific Society of Engineers and Technicians (VNITO).

Submitted : No date

BRENTS, A.D.

Calculation of expected cost reduction in petroleum and gas
production following water and gas injection into the oil
reservoir. Trudy Akad. neft. prom. no.2:208-212 '55.
(Oil field flooding) (MIRA 8:5)

BRENTS, A.D.

PHASE I BOOK EXPLOITATION

288

Dunayev, Fedor Fedorovich

Ekonomika i planirovaniye neftyanoy promyshlennosti SSSR (Economics and Planning of the Petroleum Industry in the USSR) Pt. 1. Moscow, Gostoptekhnizdat, 1957. 236 p. 4,500 copies printed.

Ede.: Brents, A. D., Candidate of Economic Sciences; Gal'peron, Ye. B., Engineer-Economist. Ed.-in-Charge: Dubrovina, N. D.; Tech. Ed.: Trofimov, A. V.

PURPOSE: The book is intended as a college text for students and faculty members. It is also meant to be used by economists in the Petroleum industry.

COVERAGE: The author explains the role played by the petroleum industry in the Soviet national economy, its development and distribution, the way it is organized and how it is directed. The author also describes the methods of production. There are 18 references, all of which are Soviet.

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Economics and Planning of the Petroleum Industry in the USSR (Cont.) 288

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AVAILABLE: Library of Congress

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BRENTS, A.D., kand.ekonom.nauk

Pipeline construction in 1960. Stroi.truboprov. 4 no.12:
1-3 D '59. (MIRA 13:5)
(Pipelines)

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GORECHENKOV, G.I., inzh.; ~~BRENTS, A.D.~~ kand.ekon.nauk

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retsensent; BUNITS, A.D., red.; GORKIN, S.F., red.; DUBROVINA,
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BRENTSIS, A., master sporta; TENISHEV, S., master sporta

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2

A. 1-48
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Foods

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4. Sheep

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1. Institut zootekhniki i zoogigiyeny Akademii nauk Latvyskoy
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(Feeding and feeding stuffs) (Vitamins) (Coniferae)

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rations in Latvia] Vyrashchivanie i otkorm svinel na bekon; iz
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[Effect of antibiotics in raising and fattening meat type swine] Antibiotisko vielu ietekme bekona cuku audzesana un nobarosana. Riga, Latvijas lopkopibas un veterinarijas zinatniski petnieciskais instituts, 1961. 25 p.

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MAITIS, K.K., cand. agric. sc.

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1. Director, Latvian Research Institute of Animal Breeding and Veterinary Medicine, Sigulda.

TITARENKO, R.M., inzh.; BRENTSSEN, E.R.

Machines for ammonia water application. Trakt. i sel'khoz mash. 30 no.7:
33-34 J1'60. (MIRA 13:10)
(Fertilizer spreaders) (Ammonia)

S/095/60/000/011/001/004
A053/A026

AUTHORS: Gorechenkov, G.I., Engineer; Brenz, A.D., Candidate of Economical Sciences

TITLE: Technical Problems in the Construction of Pipelines in 1961

PERIODICAL: Stroitel'stvo Trubovodov, 1960, No. 11, pp. 3 - 6

TEXT: The capacity of gas pipelines has considerably increased in 1960 due to the fact that the average pipe diameter has increased to 750 mm as compared with 590 mm in USA in 1959. Pipeline engineering is continuously improving: Serial production has now started of installations for semi-automatic welding of pipes without supporting rings in carbonic acid gas medium. A machine for spraying insulation onto pipes has been introduced which ensures an even and solid protective layer. The issuing of pipe laying machines with hydraulically controlled hoists with extending counterweights has been started. Contact-welding machines for processing 720 mm pipes have been tested for the first time. Tests have also been conducted with double-rotor cleaning machines. Final tests are being performed with floating excavators for work in swamps. A trial lot of rotor excavators ER-10 has been issued for digging trenches 1.5 x 2.5 m, intended for 1,020 mm pipes. Aerial pipeline crossings over obstacles are being applied

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S/095/60/000/011/001/004
A053/A026

Technical Problems in the Construction of Pipelines in 1961

on a large scale and designs are being developed for surface pipelines. Mass construction of compressor stations is under way with buildings consisting of large-size panels made of aluminum frames covered with asbestos-cement sheets, developed by VNIIST. The building program for 1961 provides for 3,500 km of gas pipelines and over 2,700 km of pipelines for crude oil and oil products. The article gives some details concerning the location of the new pipelines and the cities profiting by the new projects. Existing production bases require expansion and a great number of new bases must be erected to keep up with the demand for more material. The building of pipelines provides for simultaneous construction of 30 compressor stations and over 30 pumping stations, of which about half must be completed by 1961. To cope with the proposed work load scientific research institutes and designing bureaus will have to show greater activity and more effort to improve their work. There is far too much discrepancy in the designs of compressor stations. If in case of industrial power stations the weight of buildings amounts to 105 - 117 kg per 1 kw of capacity, a compressor station worked out by Ukrgiprogaz does not exceed 72 kg per 1 kw. This design should, therefore, be considered as standard for 1961, being technically the most up-to-date. Compared with this design, those developed by Giprospekgaz should cut

Card 2/4

S/095/60/000/011/001/004
A053/A026

Technical Problems in the Construction of Pipelines in 1961

down on the basic weight of the building, make more efficient use of the space and drastically decrease the weight of subsidiary buildings. Designing institutes do not yet sufficiently consider the economical aspects of a project; e.g., Giprospeftgaz requires for an assembled garage 72 kg of steel per 1 m², which is the amount of steel consumed in an industrial building with heavy crane loads. There is a great scope for improvement in the design of foundations, which should be taken up by VNIIST. The article proposes a new method of calculating the price for the work done by pipeline constructors. Following the example of railroad and automobile transportation workers, who are paid on the basis of ton-km, the article suggests m³-km as basic unit for pipeline work price calculation. The article mentions several problems in connection with new technical achievements, which require further investigation and improvement before being available for general application, - such as insulation of pipes with polyethylene, production of non-metal pipes, welding of pipes in a medium of aqueous gas, electrodes in plastic coating, mobile installations for magnetographic check-up of welded pipe connections, electric protection of pipes against corrosion by means of non-contact automatic cathode stations and stations with thermo-electric generators. The problem of pipeline costs requires careful investigation, especial- ✓

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S/095/60/000/011/001/004
A053/A026

Technical Problems in the Construction of Pipelines in 1961

ly in the case of obstacle crossings which could be achieved best and much cheaper by installing aerial crossings. There is no doubt that by developing and applying in practice the new technical solutions the 1961 plan can be filled. There is 1 table. ✓

Card 4/4

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Stroj cas 13 no.3:209-231 '62.

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